



ELECTRONIC TUBE REFERENCE

DF67

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Subminiature low-frequency pentode for hearing aids and other very-low-power battery equipment. Its directly heated construction targets compact audio voltage amplification where minimal filament consumption is essential.

GENERAL CHARACTERISTICS

BASE DESIGNATION	SUBMINIATURE	BASE PINS	8
NOMINAL HEATER	0.625 V / 13.3 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	4000000 Ω
TRANSCONDUCTANCE	0.0001 S
MAXIMUM PLATE VOLTAGE	45 V
MAXIMUM SCREEN VOLTAGE	45 V
<i>Published ratings and characteristics promoted from the printed technical data.</i>	

Subminiature low-frequency pentode for hearing aids and other very-low-power battery equipment.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1953 RFT RUNDFUNK TECHNIK

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	0.625 V	Nominal
HeaterCurrentNominal	13.3 mA	Nominal
Maximum Plate Voltage	45 V	—
Maximum Screen Voltage	45 V	—
Maximum Plate Dissipation	0.0015 W	—
Maximum Screen Dissipation	0.0005 W	—
Maximum Cathode Current	0.05 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V1

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid capacitance	1.5 pF	—
Plate capacitance	1.5 pF	—
Grid-to-plate capacitance	—0.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	22.5 V	HearingAid
Screen voltage	18 V	HearingAid
Plate current	0.05 mA	HearingAid
Screen current	0.01 mA	HearingAid
Grid voltage	-1.15 V	HearingAid

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	100 μ S	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS 0-D
Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	1.5 pF	—
Output capacitance	1.5 pF	—
Plate-grid capacitance maximum	0.2 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	22.5 V	—
Screen voltage	18 V	—
Plate current	0.05 mA	—
Screen current	0.01 mA	—
Grid bias	-1.15 V	—
Transconductance	100 μ S	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	4 Mohm	—
Screen-grid amplification factor	8.7	—